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**Subject:** Hurricane Harvey ESF-10 Texas Situation Report #9 for 9/7/17  
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**Hurricane Harvey-Texas**  
**ESF-10**  
**Situation Report #9**

**Subject:** SITREP #9  
**To:** Agency Leads  
**Thru:** Matthew Loesel. PSC  
**From:** Unified Command  
**Date:** 9/7/2017  
**Reporting Period:** 9/7/2017

**1. Introduction**

**1.1. Background**

Hurricane Harvey made landfall at 2300 ET, August 26<sup>th</sup>, as a Category 4 storm near Rockport, Texas. Harvey stalled over southeastern TX. Due to its slow motion and a prolonged period of onshore flow, the impacted areas received more than 50 inches of precipitation which subsequently led to catastrophic flooding.

An ESF-10 Mission Assignment was signed on August 28, 2017. The US Environmental Protection Agency (EPA), Texas Commission on the Environmental Quality (TCEQ), Texas General Land Office (TGLO) and the US Coast Guard (USCG) have entered into Unified Command to begin the evaluation, clean-up and recovery of spills, releases and orphan containers.

**2. Current Activities**

**2.1. Operations Section**

On September 6, 2017, Unified Command continued operations in accordance with the Natural Disaster Operational Workgroup (NDOW) Standard Operating Procedures, NDOW forms and Response Manager. The Unified Command is supported by three operational branches: Alpha Branch in Corpus Christi, Bravo Branch in Houston and Charlie Branch in Port Arthur. Oil Discharge Assessment and Recovery teams as well as Orphan Container Evaluation and Recovery teams continued working throughout the Alpha, Bravo and Charlie Branches. Drinking Water (DW) and Waste Water (WW) Assessment teams were active in the Bravo Branch. EPA's mobile air monitoring Trace Atmospheric Gas Analyzer (TAGA) bus conducted air monitoring in the Houston area today near the Valero Refinery and will continue to monitoring various areas in the Bravo Branch. ASPECT continued to survey Risk Management Program (RMP), Facility Risk Plan (FRP), Drinking water and Waste water facilities in the affected areas.

The phone bank in Austin, consisting of EPA and TCEQ personnel continue contacting drinking water and waste water facilities by phone. They conduct an initial damage assessment via phone surveys. Applicable survey forms are completed for systems and then entered into Response Manager. Areas of concern are followed up with an on-site assessment.

**Table 1** represents the assessments of drinking water and waste water systems evaluated by both phone and on-site.

<b>Table 1: Drinking Water and Waste Water Assessments</b>		
	<b>Daily Assessments</b>	<b>Total Assessments</b>
<b>On-Site DW Assessments</b>	80	256
<b>On-Site WW Assessments</b>	47	181
<b>Phone DW Assessments</b>	253	4852
<b>Phone WW Assessments</b>	111	2908

Table 2 and 3 represent the work of teams in Alpha, Bravo and Charlie Branches in the evaluation, assessment and recovery of orphan container and spills or discharge from various targets in the Alpha, Bravo and Charlie Branches.

<b>Table 2: Daily/Cumulative summary of Hazard Evaluations/Recovery</b>				
<b>Status</b>	<b>Opened</b>		<b>Closed</b>	
	<b>9/6/2017</b>	<b>Number of Targets Remaining Open</b>	<b>9/6/2017</b>	<b>Cumulative</b>
Alpha Branch	2	32	4	73
Bravo Branch	29	193	4	28
Charlie Branch	15	34	1	4
NRC Reports	0	3	0	0
<b>Totals</b>	46	262	9	105

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

<b>Table 3: Daily/Cumulative Summary of Spills/Discharges</b>				
<b>Status</b>	<b>Opened</b>		<b>Closed</b>	
	<b>9/6/2017</b>	<b>Number of Targets Remaining Open</b>	<b>9/6/2017</b>	<b>Cumulative</b>
Alpha Branch	34	425	30	99
Bravo Branch	8	59	2	14
Charlie Branch	1	11	10	10
NRC Reports	53	82	3	20
<b>Totals</b>	<b>96</b>	<b>577</b>	<b>45</b>	<b>143</b>

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

**Other Notable Activities**  
**AUSTIN BRANCH**

The phone bank continued to conduct phone surveys for assigned drinking water and wastewater facilities. On Friday, September 8, 2017 EPA staff working the phone bank will be demobilized. Their work is completed, any additional assistance with phone calls can be done by the Dallas EPA Region 6 office.

**ALPHA BRANCH**

On Thursday September 7, 2017, the Alpha Branch continued to review the backlog list of NRC reports compared to Response Manager targets. Oversight of fuel transfer of Signet Enterprise continued, with a total of 74,000 gallons being transferred to date. All remaining petrochemical products (lube oil, hydraulic oil) are in the process of being removed to complete the removal process of oil or hazardous substance products from the Signet Enterprise.

The Alpha Branch will continue to manage the staging area pad. The boats and trailers were fully operational and the team recovered one 1000-gallon tank and a 55-gallon drum. The team also recovered 3 cylinders on land to total 5 items recovered to the staging pad today. Tomorrow, the team will use one HE team by water to complete evaluations.

Members of the Emergency and Rapid Response Services group responded to and recovered orphan containers from Port Aransas to Rockport. The Oil Discharge Recovery group continues to engage closely with local vessel owners to ensure removal and remediation of displaced vessels.

DATE	CONTAINERS			Cylinders	TOTALS	
	Drums [55gal]	Small Containers [< 55gal]	Large Containers [> 55gal]		Total Items Collected Today	Total Items Collected Project to Date
9/1/2017	26	22	1	1	49	49
9/2/2017	6	10	1		17	66
9/3/2017	7			3	7	73
9/4/2017	10		3	1	13	86
9/5/2017				5	5	91
9/6/2017	1	3	1		5	96
9/7/2017	1		1	3	5	101
<b>Totals</b>	51	35	7	13		

## **BRAVO BRANCH**

The Bravo Hazard Evaluation (HE) Team conducted and completed assessments in Montgomery, Waller, Austin, Fort Bend, Colorado, and Wharton counties. The team identified 30 targets.

HE Assessment Status: 100% complete in Liberty, Austin, Waller, Chambers, Montgomery, Fort Bend, and Walker counties. 90% complete in Colorado County. 80% complete in Wharton County. 40% complete in Brazoria. 20% complete in Matagorda County. 10 % complete in Fort Bend County.

The Air Recon Team conducted a reassessment of the Brazos River with no flooding or targets to report. The team continued overflight in the vicinity of Brazoria and identified 1 target.

The Bravo Discharge Assessment Teams reevaluated 24 targets throughout the Houston area of responsibility. 11 targets were deleted due to duplicity of the report. The teams changed the status of 4 targets to clean up-in progress and changed the status of 5 targets to clean up complete-closed.

The Bravo Branch set up the staging pad today. Bravo confirmed an access agreement to stand up recovery teams which is currently set up for Saturday. The northern/ western counties are

on the verge of being ready for the transition process. The USCG and TGLO worked with recovery of vessels. Tomorrow, the Bravo Branch will send TAGA to cover major plants in the major industrial corridors.

ASPECT conducted two flights. The first consisted of a specialized small target deck over the Valero refinery. The second consisted of the target deck for Zone 8. Zone 8 is complete with the following statistics:

Zone 8 (104 of 104 lines completed)

RMP = 10 of 10

DW = 95 of 95

WW = 9 of 9

Flights planned for 8 September 2017 will consist of a special target deck for Beaumont/Port Arthur/Orange and the initiation of targets in zone 9 (Galveston County).

## **CHARLIE BRANCH**

The Inland Hazard Evaluation Team 1, utilizing an Air Boat, conducted assessments throughout the Port Arthur area of responsibility. The team identified 4 new targets with unknown content.

The Inland Task Force, consisting of 3 inland assessment teams and 1 Boat, and the Coastal Task Force Team, consisting of 3 coastal assessment teams and 1 boat, conducted and completed assessments. They assessed areas in Port Orange, West Orange Cove, Peggy's on the Bayou, I-10 highway from west to east, West Beaumont, East Port Arthur, Motiva Industrial Island, Taylor Bayou, Adam Bayou Canal, Sabine River, Port Arthur South and Pleasure Island.

IHE Team 1 discovered a partial hull on the bank of Cow Bayou that presented no risk. IHE Team 2 performed a spill check at the Motiva facility and identified no discharges. At approximately 1120, a HE team discovered heavy oil sheen near Gulfway Drive. The USCG contacted Port Arthur Fire Dept. and a USCG Contractor. The contractor responded to clean up spill. IHE Team 4 followed up on a resident call in Orange and no oil or hazmat was found.

USCG, TCEQ, and EPA performed overflights. The targeted areas in Orange County are still inaccessible, however, flood waters have decreased significantly.

Tomorrow, the Charlie Branch will be scaling back on land crew, 6 crew total, 4 HE on land based ops and 2 on boats

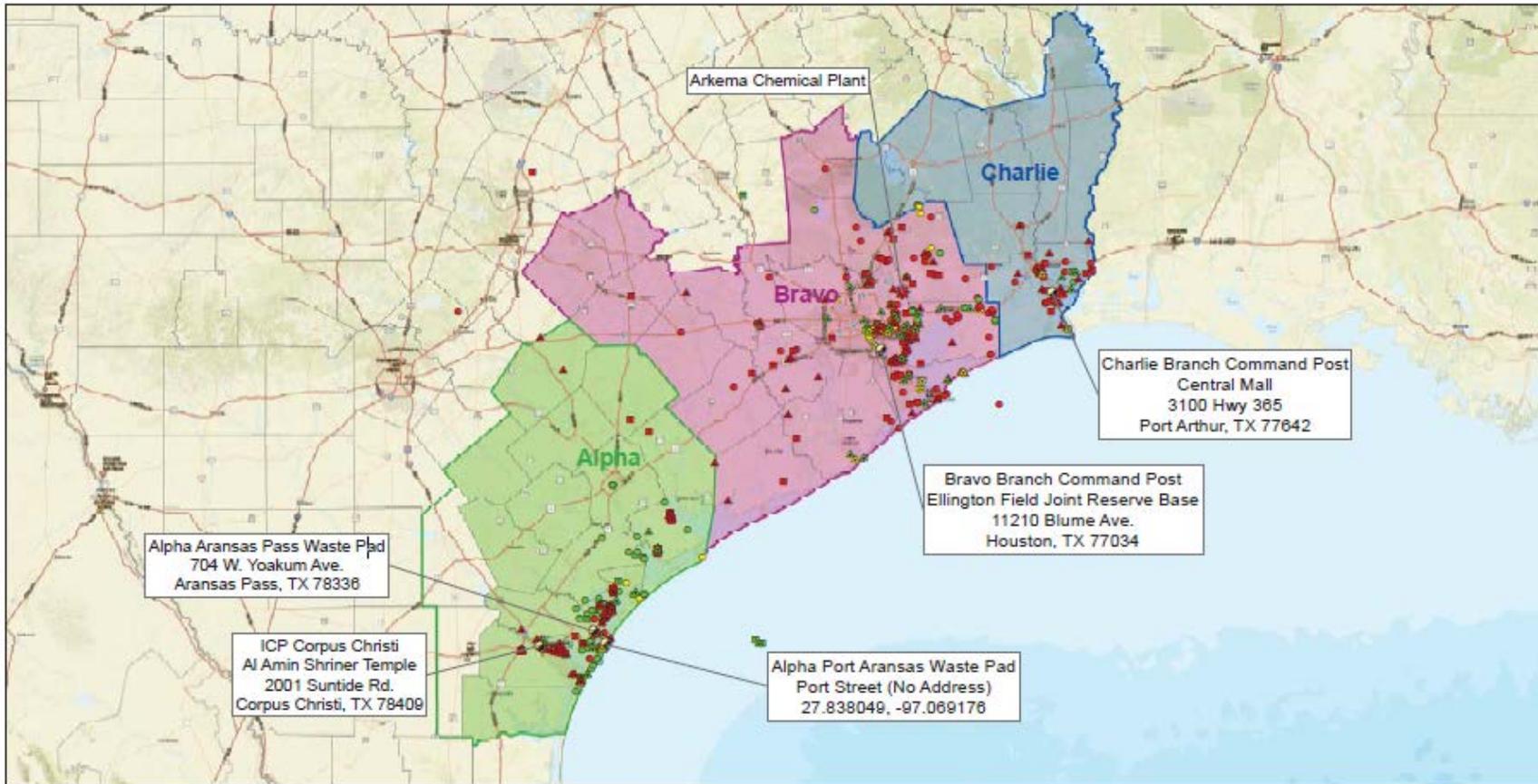
One Drinking Water Team continued with technical assistance to the City of Beaumont's water system.

### Participating Agencies

- Texas Commission on Environmental Quality
- Texas General Land Office
- Texas Parks and Wildlife
- 6<sup>th</sup> Civil Support Team
- US Environmental Protection Agency
- US Coast Guard
- National Oceanic and Atmospheric Agency

### 3. Personnel on Site

Agency	ICP	Alpha Branch	Bravo Branch	Charlie Branch	Austin	Totals
US EPA	16	3	36	2	9	66
USCG	14	37	30	30		111
TCEQ	4	5	34	12		55
TGLO	9	1	0	1		11
TXSG	0	0	11	0		11
CST	0	0	14	0		14
NOAA	2	0	1	0		3
Contractors	7	10	11	4		32
<b>Totals</b>	<b>52</b>	<b>56</b>	<b>137</b>	<b>49</b>	<b>9</b>	<b>303</b>



**Legend**      Federally Declared Counties:    ■ in Alpha    ■ in Bravo    ■ in Charlie

Arkema Chemical Plant	Incident Command Post (ICP) / Staging Area	County Boundary
<b>Facility/Spill Assessment</b>	<b>Haz/Eval Items</b>	<b>Vessels</b>
Open	Open	Open
Open - Cleanup in Progress	Open — Access Denied/Leave in Place/Refer to Other Agency	Open - Cleanup in Progress
Closed	Closed	Closed

**USA EPA REGION 6  
SITREP Map  
Alpha, Bravo, Charlie**

Hurricane Harvey Response  
September 9, 2017

